

9th Class 2015

Math (Science)	Group-II	Paper
Time: 20 Minutes	(Objective Type)	Max. Marks: 15

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill the circle in front of that question with Marker or Pen in ink. Cutting or filling two or more circles will result in zero mark in that question.

1-1- If the capacity of 'C' of an elevator is at most 1600 pounds, then ____.

- (a) $C < 1600$ (b) $C \geq 1600$
(c) $C \leq 1600$ ✓ (d) $C > 1600$

2- Mid-point of the points (2, -2) and (-2, 2) is:

- (a) (2, 2) (b) (0, 0) ✓
(c) (-2, -2) (d) (1, 1)

3- How many end points has a ray:

- (a) 1 ✓ (b) 2
(c) 3 (d) 4

4- L.C.M of $15x^2$, $45xy$ and $30xyz$ is:

- (a) $15xyz$ (b) $90xyz$
(c) $15x^2yz$ (d) $90x^2yz$ ✓

5- In $\sqrt[3]{35}$ the radicand is ____.

- (a) 3 (b) $\frac{1}{3}$
(c) 35 ✓ (d) None of these

6- $\frac{1}{a-b} - \frac{1}{a+b}$ is equal to:

- (a) $\frac{2a}{a^2 - b^2}$ (b) $\frac{-2a}{a^2 - b^2}$
(c) $\frac{-2b}{a^2 - b^2}$ (d) $\frac{2b}{a^2 - b^2}$ ✓

- 7- The bisectors of the angles of a triangle are _____.
(a) Congruent (b) Equal
(c) Parallel (d) Concurrent ✓
- 8- If the length and breadth of a rectangle are "a" and "b", then its area will be _____.
(a) $a + b$ (b) $a \times b$ ✓
(c) $a - b$ (d) $a \div b$
- 9- The logarithm of unity to any base is _____.
(a) 1 (b) 10
(c) e (d) 0 ✓
- 10- Point $(-3, -3)$ lies in the quadrant:
(a) III ✓ (b) IV
(c) II (d) I
- 11- Similar triangles are of the same shape but _____ in sizes.
(a) The same (b) Different ✓
(c) Both A & B (d) None of these
- 12- In a parallelogram, congruent parts are:
(a) Opposite sides (b) Opposite angles
(c) Diagonals (d) Opposite sides and angles ✓
- 13- The _____ altitudes of an isosceles triangle are congruent.
(a) 4 (b) 2 ✓
(c) 3 (d) None of these
- 14- What will be added to complete the square of $9a^2 - 12ab$:
(a) $-16b^2$ (b) $16b^2$
(c) $4b^2$ ✓ (d) $-4b^2$
- 15- $\log e = \underline{\hspace{2cm}}$, where $e \approx 2.718$.
(a) 0 (b) 0.4343 ✓
(c) ∞ (d) 1